

VBrick Deployment for Federal District Court of Arizona

Video Over IP to Reduce Costs and Bandwidth

Background

The Federal Judicial Center in Washington DC is the research and education agency of the federal judicial system. The Education division is responsible for planning and producing educational programs, services, and resources for judges and nonjudicial court personnel. They distribute this material in many ways, but most importantly they broadcast the Federal Judicial Television Network or FJTN by satellite.

Currently over 300 sites nation wide receive this satellite broadcast making it the second largest nonmilitary television network in the federal government. The FJTN broadcasts 154 different programs 36 of which are aired live. Each site is responsible for distributing these television feeds throughout their locations. Most of which is distributed through individual satellite receivers, CCTV systems, or standalone Windows Media Encoder PC's.

Solution

VBrick currently sells many products and solutions to include Encoders, Decoders, Set Top Boxes (STBs), Video on Demand Storage (VOD) Servers, and the EtherneTV portal server. They support and can encode streams in several different formats (MPEG-1/2/4 and Windows Media). Most importantly is how the content is delivered to your



content is delivered to your IP based network by utilizing multicast technology. This allows for a one-to-many delivery of content which saves bandwidth on your IP based network backbone and utilizes the capability of your network to deliver content. MPEG-4 and WME appliances also have the ability to broadcast HTTP and RTSP streams to the internet acting as a standalone web server for live broadcasts.

Application

The District Court of Arizona needed a more efficient way to distribute and record FJTN programming, deliver live television to personnel, provide access to training material, and to provide access to remote offices and users located throughout sites in Arizona. Using existing satellite feeds for FJTN and Cox Cable Television they are now able to distribute content more efficiently to personnel. The EtherneTV portal system provides a web front end where users can go to view live television, record live programs, and access recorded content. We have also setup HTTP and RTSP Windows Media streams so that remote offices and users in Flagstaff and Yuma can view live feeds and record content at lower bit rates through the central site in Phoenix.

Future applications of this system for the Federal Courts may include recording court proceedings, broadcasting live special proceedings, and IP enabling security camera systems.